





PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference P26942/WO/Kf/est	FOR FURTHER ACTION See Notification of Transmittal of Internation Preliminary Examination Report (Form PCT/IPEA/41		
International application No.	International filing date (day	/month/year)	Priority date (day/month/year)
PCT/EP2003/008650	05 August 2003 (05.	08.2003)	05 August 2002 (05.08.2002)
International Patent Classification (IPC) or r F16C 33/10, 33/02, F04B 1/20,	national classification and IPC B05D 5/08		
Applicant			
BR	UENINGHAUS HYDRC	MATIK GM	IBH
This international preliminary exam and is transmitted to the applicant acts.	ination report has been prepare coording to Article 36.	d by this Intern	national Preliminary Examining Authority
2. This REPORT consists of a total of	5 sheets, includ	ing this cover s	heet.
amended and are the basis to	ied by ANNEXES, i.e., sheets or this report and/or sheets conta Administrative Instructions un	uning rectifica	on, claims and/or drawings which have been tions made before this Authority (see Rule
These annexes consist of a to	tal of sheets.		
3. This report contains indications related	ting to the following items:		
I Basis of the report			
II Priority			
III Non-establishment o	of opinion with regard to novel	ry, inventive ste	ep and industrial applicability
IV Lack of unity of inve	ention		
V Reasoned statement citations and explana	under Article 35(2) with regard tions supporting such statement	l to novelty, inv it	ventive step or industrial applicability;
VI Certain documents c	ited		
VII Certain defects in the	e international application		
VIII Certain observations	on the international application	n	
<u> </u>			
Date of submission of the demand		Date of completion of this report	
04 March 2004 (04.03.2004)		26 Oc	otober 2004 (26.10.2004)
Name and mailing address of the IPEA/EP	Author	ized officer	
Facsimile No.	Telenh	one No	



Internal application No.

PCT/EP2003/008650

I. Basis of the report							
1. With regard to the elements of the international application:*							
	the international application as originally	filed					
\boxtimes	the description:						
	pages	1-13	, as originally filed				
	pages		, filed with the demand				
		, filed with the letter of					
\boxtimes	the claims:						
_	pages	. 1-18	, as originally filed				
	pages	, as amended (togethe					
		, filed with the letter of					
\boxtimes	the drawings:						
	pages	1/5-5/5	, as originally filed				
		, filed with the letter of					
	the sequence listing part of the description:						
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		, filed with the letter of					
the	the language of publication of the internal	nis Authority in the following language the purposes of international search (under R	which is:				
3. Wir pre	th regard to any nucleotide and/or amin liminary examination was carried out on the contained in the international application filed together with the international application furnished subsequently to this Authority is	in written form. cation in computer readable form.					
<u> </u>	furnished subsequently to this Authority is	n computer readable form.					
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.						
	The statement that the information reco been furnished.	orded in computer readable form is identica	l to the written sequence listing has				
1.	The amendments have resulted in the cand						
	the description, pages						
	the claims, Nos.						
	the drawings, sheets/fig						
i. 🔲	This report has been established as if (som beyond the disclosure as filed, as indicated	ne of) the amendments had not been made, so in the Supplemental Box (Rule 70.2(c)).**	ince they have been considered to go				
in th	acement sheets which have been furnished to his report as "originally filed" and are n 70.17).	o the receiving Office in response to an invito ot annexed to this report since they do no	ation under Article 14 are referred to ot contain amendments (Rule 70.16				
* Any i	replacement sheet containing such amendme	nts must be referred to under item 1 and anne	exed to this report.				

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NO

 Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement 						
Statement						
Novelty (N)	Claims	1-17	YES			
	Claims	18	NO			
Inventive step (IS)	Claims	1-17	YES			
	Claims	18	NO			
V I A CAN A LATE (TAN	Claima	1-18	YES			

2. Citations and explanations

Industrial applicability (IA)

D1: DE-A-1 96 01 721

D2: DE-A-43 01 123 (attached)

Claims

Claims

- According to the description, the sliding block 1. blank and the beam mediating the application of heat are displaced relatively to each other in each case (a relative movement results from displacement of the sliding block blank while the beam remains stationary, displacement of the beam while the sliding block blank remains stationary or unequal displacement of both objects). Therefore, the wording in claim 1 ("by displacing the sliding block blank (47) and/or a beam (35) mediating the application of heat (34) relatively to each other") is unclear (PCT Article 6). Said wording will be interpreted to mean "by displacing the sliding block blank (47) and/or a beam (35) mediating the application of heat (34) the sliding block blank (47) and/or a beam (35) mediating the application of heat (34) are displaced relatively to each other").
- Claim 1 pertains to a process for forming partitions 2. . on the slide surface of a sliding block blank.

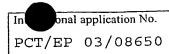
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Sliding blocks are used in, for example, axial piston devices, in which the pistons are supported via sliding blocks on an appropriately formed slide surface and the lifting movement of the pistons is generated by relative displacement of the sliding block and the slide surface. It is known that a sliding block body (sliding block blank) that cooperates with a piston should be fabricated from a material with high mechanical strength and that the contact surface of such bodies should be configured with the slide surface as a slide sole with projections and recesses (partitions) for the purpose of receiving lubricant, at least said projections consisting of friction-reducing material. The friction-reducing material is, for example, fixed in the grooves of the sliding block body with positive engagement (cf. D1) or is applied as a layer enveloping the body (cf. D2). According to the application, the projections of the slide sole are produced by local fusion of frictionreducing material applied initially as, for example, a layer of loose powder. This represents a simplification in relation both to the material required (no groove-shaped supporting material in the body, less friction-reducing material) and to fabrication (reduced machining time) while, according to the applicant, achieving identical stability.

The process according to the application is neither known from the prior art nor deducible therefrom.

Claim 1 meets the requirements of PCT Article 33(2) and (3).

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Device claim 18 and the concept of "fusion" used З. therein (which does not necessarily yield an integral connection) do not exclude sliding blocks in which the sliding block body has grooves in which the melted material is ultimately fixed in a positively engaging manner only. This follows from the description (cf., e.g., page 2, paragraph 4), which states explicitly that, in "the process according to the invention", fixing the material by a contactless process fixedly and durably as a soldered or welded joint on the sliding block blank is considered only to be "advantageous" (in this paragraph "advantageous" may refer to "fixed connection" since the "contactless process" is defined in claim 1 as well as in claim 18).

Therefore, the features defining a fabrication process in the characterizing part of device claim 18 do not contribute any clear structural features that would distinguish the claimed sliding block from, for example, the sliding block described in D[?].

The present claim 18 does not meet the requirements of PCT Article 33(2).

4. Claims 2-17, which are dependent on claim 1, likewise meet the requirements of PCT Article 33(2) and (3).